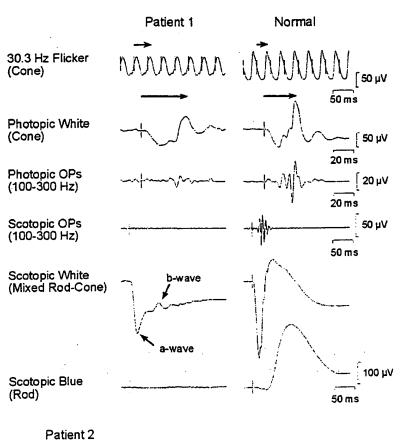
FIGURE 1A





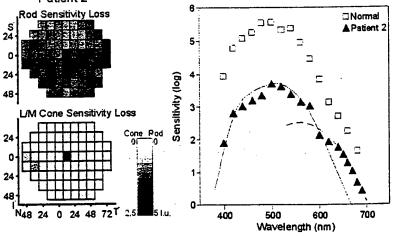
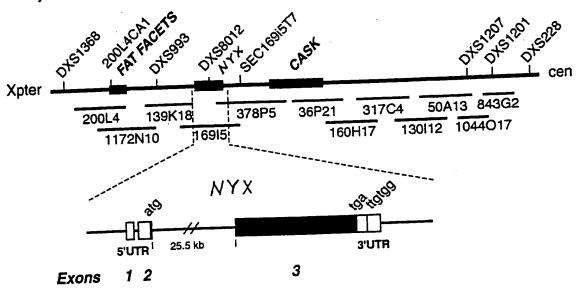


FIGURE 1C

FIGURE 3A

Physical map of the CSNB1 minimal region and genomic organization of NYX



Leucine-rich repeats and the distribution of mutations in the Nyctalopin protein

MKGRG	MLVLLLHAVVLGLPSAWAVGA ARA PAA A STVERG SVR DR	- 50
1. 2. 3. 4.	AGLLRVPAELPCEAVSIDLDRNGL RFLGERAFGTLPSLRRLSLRHNNL SFITPGAFKGLPRLAELRLAHNGDL RYLHARTFAALSRLRRLDLAACRL FSVPERLLAELPALRELAAFDNLFRRVPGALRGL	- 74 - 98 - 123 - 147 - 181 - 218
 7. 8. 9. 10. 11. 	ANLTHAHL15LRRLRSLSLQANRV ERGRIEAVASSSLQG RAVHAGAFGDCGVLEHLLLNDNLL AELPADAFRGLRRLRTLNLGGNAL DRVARAWFADLAELELLYLDRNSI AFVEEGAFQNLSGLLALHLNGNRL TVLAWVAFQPGFFLGRLFLFRNPW	- 242 - 266 - 290 - 314 - 338
need 1	β-sheet α-helix RLEWLRDWMEGSGRVTDVP ASPGSVAGLDLSQVTFGRSSDGL VI NLTTSSPGPSPEPAATTVSRFSSLLSKLLAPRVPVEEAANTTGGLI SDSLSSRGVGGAGRQPWFLLASCLLPSVAQHVVFGLQMD) - 388 A - 438 - 481

insertions of SVPERLL, GLR and RLR, respectively

most likely signal peptide cleavage site

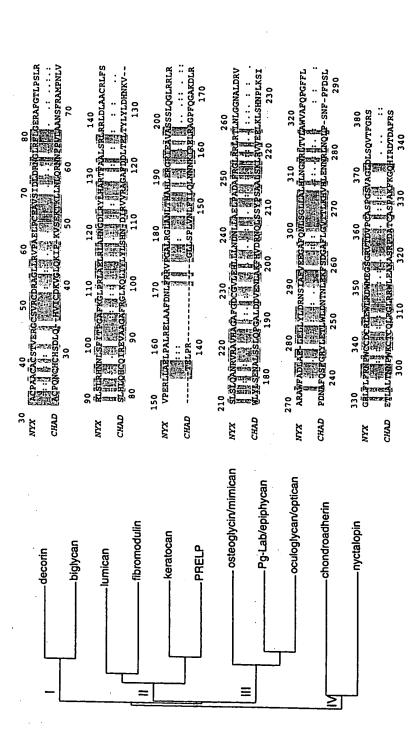


FIGURE 4A



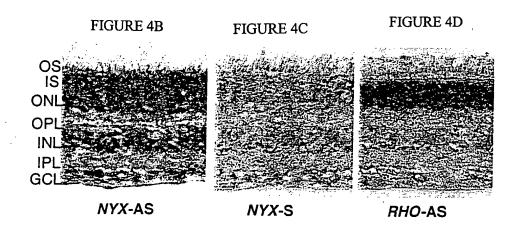


FIGURE 5A

FIGURE 5B

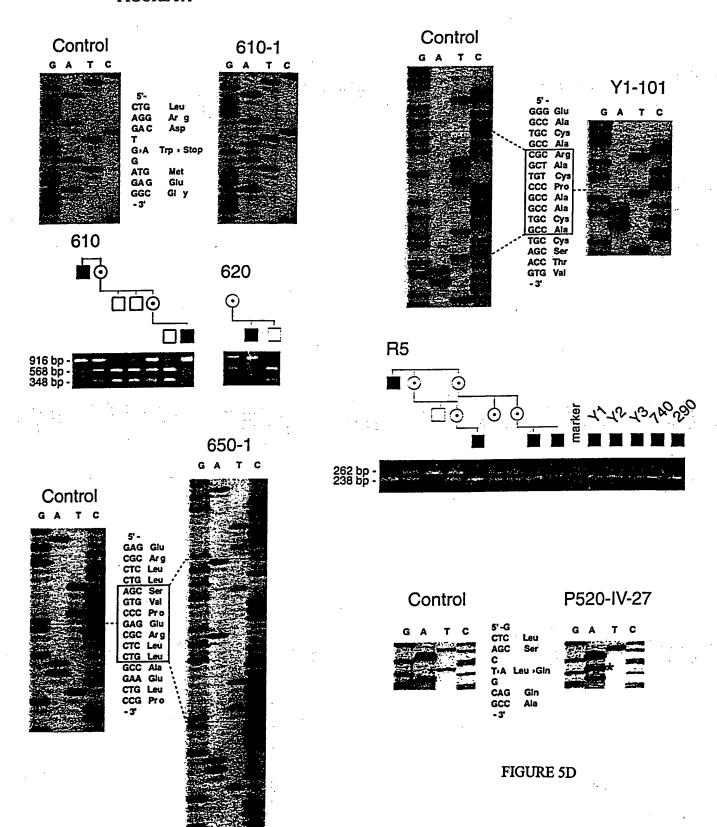


FIGURE 5C